

*DubAI* → What is claimed is:

1. A peripheral or memory device having a bus, and a bus switching circuit that comprises:

5 a first bus decoder circuit coupled to the bus for decoding signals in a first format;

10 a second bus decoder circuit coupled to the bus for decoding signals in a second format;

15 a first bus snoop circuit coupled to the bus;

20 a second bus snoop circuit coupled to the bus;

25 a switch coupled to the first bus snoop circuit for receiving a first bus detect signal therefrom, and the switch coupled to the second bus snoop circuit for receiving a second bus detect signal therefrom; and

30 wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal thereto, depending on the nature of the first and second detect signals.

2. The device of claim 1, wherein the first bus decoder circuit is an ISA bus decoder circuit, and the second bus decoder circuit is an LPC bus decoder circuit.

3. A peripheral or memory device comprising:

25 a bus;

30 a micro-controller; and

a bus switching circuit that comprises:

35 a first bus decoder circuit coupled to the bus for decoding signals in a first format;

40 a second bus decoder circuit coupled to the bus for decoding signals in a second format;

45 a switch coupled to the micro-controller for receiving a bus select signal therefrom; and

50 wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal thereto, depending on the nature of

*sub A1* > the bus select signal.

4. The device of claim 3, wherein the first bus decoder circuit is an ISA bus decoder circuit, and the second bus decoder circuit is an LPC bus decoder circuit.

5. 5. A peripheral or memory device comprising:

a bus;

a pin; and

10 a bus switching circuit that comprises:

a first bus decoder circuit coupled to the bus for decoding signals in a

first format;

15 a second bus decoder circuit coupled to the bus for decoding signals in a second format;

a switch coupled to the micro-controller for receiving a bus select signal therefrom; and

20 wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal thereto, depending on the nature of the bus select signal.

6. 6. The device of claim 5, wherein the first bus decoder circuit is an ISA bus decoder circuit, and the second bus decoder circuit is an LPC bus decoder circuit.

7. A peripheral or memory device comprising:  
a bus;  
a first bus decoder circuit coupled to the bus for decoding a first type of bus  
signal;  
5 a second bus decoder circuit coupled to the bus for decoding a second type of  
bus signal;  
means for detecting whether the bus is a first type of bus or a second type of  
bus, the detecting means outputting a select signal;  
a switch coupled to the detecting means for receiving the select signal  
10 therefrom; and  
wherein the switch is coupled to the first bus decoder circuit for providing a  
first bus enable signal thereto, and the switch is coupled to the second bus decoder  
circuit for providing a second bus enable signal thereto, depending on the nature of  
the select signal.

15 8. The device of claim 7, wherein the first bus decoder circuit is an ISA  
bus decoder circuit, and the second bus decoder circuit is an LPC bus decoder  
circuit.

20 9. The device of claim 7, wherein the detecting means comprises:  
a first bus snoop circuit coupled to the bus;  
a second bus snoop circuit coupled to the bus; and  
wherein the switch is coupled to the first bus snoop circuit for receiving a first  
bus detect signal therefrom, and the switch is coupled to the second bus snoop  
25 circuit for receiving a second bus detect signal therefrom.

10. The device of claim 7, wherein the detecting means comprises a micro-  
controller.

30 11. The device of claim 7, wherein the detecting means comprises a pin.

12. A peripheral or memory device comprising:  
a bus;  
a first bus decoder circuit coupled to the bus for decoding a first type of bus  
signal;  
5 a second bus decoder circuit coupled to the bus for decoding a second type of bus  
bus signal;  
a detecting circuit that determines whether the bus is a first type of bus or a  
second type of bus, the detecting circuit outputting a select signal;  
a switch coupled to the detecting circuit for receiving the select signal  
10 therefrom; and  
wherein the switch is coupled to the first bus decoder circuit for providing a  
first bus enable signal thereto, and the switch is coupled to the second bus decoder  
circuit for providing a second bus enable signal thereto, depending on the nature of  
the select signal.

15 13. The device of claim 12, wherein the first bus decoder circuit is an ISA  
bus decoder circuit, and the second bus decoder circuit is an LPC bus decoder  
circuit.

20 14. The device of claim 12, wherein the detecting circuit comprises:  
a first bus snoop circuit coupled to the bus;  
a second bus snoop circuit coupled to the bus; and  
wherein the switch is coupled to the first bus snoop circuit for receiving a first  
bus detect signal therefrom, and the switch is coupled to the second bus snoop  
25 circuit for receiving a second bus detect signal therefrom.

15. The device of claim 12, wherein the detecting means comprises a  
micro-controller.

30 16. The device of claim 12, wherein the detecting means comprises a pin.